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APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/855,694 05/1		5/16/2001	Yong-In Park	8733.428.00	9209	
30827	7590	05/06/2002				
		& NORMAN, LI	EXAM	EXAMINER		
SUITE 600		AVENUE N.W.	MALDONADO, JULIO J			
WASHINGTON, DC 20004				ART UNIT	PAPER NUMBER	
				2823		
			DATE MAILED: 05/06/2002			

Please find below and/or attached an Office communication concerning this application or proceeding.

i		Application I	No.	•	Applicant(s)						
		09/855,694			PARK ET AL.	N					
	Office Action Summary	Examiner			Art Unit						
		Julio J. Maldo			2823						
Daried fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address										
Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM  THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).											
Status	The state of the s	May 2001									
1)	Responsive to communication(s) filed on 16		n final								
2a)☐	,—	his action is no		l mattara nr	occoution as to t	he merits is					
3)	Since this application is in condition for allow closed in accordance with the practice under	rance except ic r <i>Ex parte Qua</i> j	yle, 193	5 C.D. 11, 4	53 O.G. 213.	ne ments is					
Dispositi	on of Claims										
	4)⊠ Claim(s) <u>1-20</u> is/are pending in the application.										
	4a) Of the above claim(s) is/are withdrawn from consideration.										
5)□	Claim(s) is/are allowed.										
6)□	6) Claim(s) is/are rejected.										
•	Claim(s) is/are objected to.										
•	Claim(s) <u>1-20</u> are subject to restriction and/or	r election requir	rement.								
• •	on Papers										
• —	The specification is objected to by the Examino		مة استفست:	by the Eve	minor						
10)[]	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.										
44)	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).										
11)	11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.										
If approved, corrected drawings are required in reply to this Office action. 12) ☐ The oath or declaration is objected to by the Examiner.											
Priority under 35 U.S.C. §§ 119 and 120											
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).											
•	a) All b) Some * c) None of:										
۵,	1. Certified copies of the priority documents have been received.										
	2. Certified copies of the priority documents have been received in Application No.										
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).											
* See the attached detailed Office action for a list of the certified copies not received.											
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).											
<ul> <li>a) ☐ The translation of the foreign language provisional application has been received.</li> <li>15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.</li> </ul>											
Attachment(s)											
2)  Noti	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	_		ice of Informal	y (PTO-413) Paper N Patent Application (F						

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## **DETAILED ACTION**

## Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - I. Claims 1-5 and 15-20, drawn to a method of forming a semiconductor device, classified in class 438, subclass 149.
  - II. Claims 6-14, drawn to an apparatus to fabricate a semiconductor device, classified in class 118, subclass 723.
- 2. Inventions II and II are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case the method as claimed can be practice by another materially different apparatus that does not include a first reaction chamber for curing the organic insulating layer; a second reaction chamber for forming the first amorphous silicon layer; a third reaction chamber for forming the doped amorphous silicon layer; and a preparation chamber for providing a vacuum condition, where the preparation chamber is adjacent the first, second and third reaction chambers and the substrate is transferred from the first chamber to the second chamber under the vacuum condition through the preparation chamber.

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## Conclusion

3. Papers related to this application may be submitted directly to Art Unit 2823 by facsimile transmission. Papers should be faxed to Art Unit 2823 via the Art Unit 2823 Fax Center located in Crystal Plaza 4, room 3C23. The faxing of such papers must conform to the notice published in the Official Gazette, 1096 OG 30 (15 November 1989). The Art Unit 2823 Fax Center number is (703) 305-3432. The Art Unit 2823 Fax Center is to be used only for papers related to Art Unit 2823 applications.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Julio J. Maldonado** at **(703)** 306-0098 and between the hours of 8:00 AM to 4:00 PM (Eastern Standard Time) Monday through Friday or by e-mail via <u>julio.maldonado@uspto.gov</u>. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy, can be reached on **(703)** 308-4918.

Any inquiry of a general nature or relating to the status of this application should be directed to the **Group 2800 Receptionist** at **(703) 308-0956**.

Julio J. Maldonado

Patent Examiner
Art Unit 2823

703-306-0098

julio.maldonado@uspto.gov

SUPERVISORY PRIMARY EXAMINER TECHNOLOGY CENTER 2000